

Using coarse porous concrete in constructing walls of industrial buildings. Prom.stroi. 38 no.4:54-56 160. (NIRA 13:8)

(Irkutsk Province--Concrete walls)

DIKOVSKIY, I.A., insh.; ROMANOV, Yu.H., inzh. Efficient method for making lightweight concrete with agloporites.

Bet. i zhel.-bet. no.ll:521-523 N '60. (MIRA 13:11)

(Lightweight concrete) (MIRA 13:11)

Large-pore concrete made with porous aggregates. Bet.i zhel.-bet.
(MIRA 14:7)
no.6:249-254 Je '61.
(Lightweight concrete)

DIKOVSKIY, I.I.; MOTINA, T.I.; SUCHKOV, V.G.,

Using "chromolan" for imparting water-repellent properties to
leather. Kozh.-obuv.prom. 2 no.9:22-25 S *60. (MIRA 13:10)
(Leather)

DIKOVSKIY, I., instruktor peredovykh metodov truda.

Sand dies. Stroitel' 2 no.6:13 Je '56. (Concrete construction -- Formwork)

(MIRA 10:1)

ARKHIPKIN, V.; DIKOVSKIY, I...

Band instead of wheel. New heat insulator. NTO 4 no.12:43
D '62. (MIRA 16:1)
(Grimding and polishing) (Insulation (Heat))

DIKOVSKIY, I., instruktor peredovykh metodov truda.

Producing T-beams. Stroitel' no.4:11 Ap '57. (MIRA 10:6)

(Girders)

DIKOVSKIY, I.H.

Contractual relations in capital construction. Nov. tekh. i pered. op. v stroi. 20 no.1:22-23 Ja 158.

> 1. Glavnyy arbitr Ministerstva stroitel'stva RSFSR. (Building--Contracts and specifications)

DIKOYSKIY, M.

Improving the procedure for remunerating procurement agents.

Mias. ind. SSSR 29 no.6:45 58. (MIRA 11:12)

1.Orlovskiy myasotrest.

(Orel Province--Meat industry---Costs)

T 601118-65

ACCESSION NR: AT5017378

UR/0000/64/000/000/0019/0024

AUTHOR: Dikovskiy, Yn. M. (Novosibirsk); Krapalov, I. I. (Novosibirsk); Tsapenko M. P. (Dector of technical sciences, Novosibirsk)

TITLE: Relay with a single-reed magnetically controlled contact

SOURCE: Konferentsiya po avtomaticheskomu kontrolyu, i metodam elektricheskikh izmereniy. 3d, Novosibirsk, 1981. Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: Tsifrovyje izmeritel'nyye pribory. Elektricheskiye izmereniya neelektricheskikh velichin. Ustroystva avtomaticheskogo kontrolya i upravleniya v promyshletmosti (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Digital measuring instruments. Electrical measurements of nonelectrical quantities. Devices for automatic control and regulation in industry). Novosibiruk, Redizdat Sib. ctd. AN SSSR, 1934, 19-24

TOPIC TAGS: single-read contact, magnetically controlled contact, single-read contact relay, switch design

ABSTRACT: After describing the existing two-reed magnetically controlled contacts used in the West, the authors describe in detail the construction of simple, miniature, universal, reliable, and technologically useful single-reed magnetically controlled

Cord 1/2

	ACCESSION NR: AT5017378 contacts. They can be used for the switching of low-power circuits for automation, telemechanics, and measuring device technology. Relays with the newly designed magnetically controlled contacts may be used for vibro-converters, dynamic condensers, frequency multipliers and dividers, and for logical, memory, and phase-sensitive element Orig. art. has: 5 figures and 1 table.					ors, ements.
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·L 30338-66 · EWT(1) ACC NR AP6019581 SOURCE CODE: UR/0115/66/000/004/0060/0063 AUTHOR: Dikovskiy, Ya. M.; Malyshev, I. S.; Pinchuk, L. Ye. ORG: none TITLE: Operating characteristics of magnetic reed relays in a transverse magnetic field SOURCE: Izmeritel'naya tekhnika, no. 4, 1966, 60-63 TOPIC TAGS: electric relay, ferrite switch ABSTRACT: The authors describe experimental results obtained with magnetic reed relays, in which the controlling magnetic field is normal rather than parallel to the contact arms. Tests were done on two batches of ten relays each, all having the same form as in Fig. 1, except that one batch had 1.0-mm-diameter reeds while the other had 0.8-mm reeds. Reeds were of a magnetic material identified only as type **Fixed** <u>Movable</u> Fig. 1. Reed relay

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410410001-0"

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L 30338-66

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N-47-D5 alloy. The actuator coil consisted of 1000 turns of 0.35-mm wire wound on a 39 x 4 x 4-mm Ni-Fe core and fed from a 6-12-v d-c source. The main objective of the tests was to find the operating characteristic of the relay as a function of actuator-coil position, when the coil was moved both laterally along the relay envelope and perpendicularly across it. A sample of the curves is given in Fig. 2,

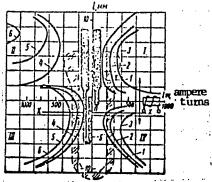


Fig. 2. Threshold operating characteristics

where the graph overlays a cross-section of the relay. The curves represent the threshold ampere-turns required for contact operation at varying distances of the coil from the reed contacts. The graph shows, for example, that maximum sensitivity occurs when the coil is in quadrant III, i.e., nearest to the movable reed, but that

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a greater tolerance in coil positioning can be had in quadrant I; also, a pronounced dead zone appears between quadrants I and IV. A similar family of curves was obtained for motion of the coil across the envelope, i.e., in the X-X direction of Fig. 2. From their data the authors have derived empirical design formulas for optimum coil positioning. They conclude that the cross-field design is practical and can be realized without unreasonable demands on geometry tolerances. Operating specifications of the tested relays are included. Orig. art. has: 3 figures and 6 formulas.

SUB CODE: 09/ SUBM DATE none/ ORIG REF: 002/ OTH REF: 001/ ATD PRESS:50/6

Card 3/3' Q.D.

DIKRAN, Martaian, ing.

Method to control the manufacturing process of plasters. Rev constr si mat constr 16 no. 1:38-39 Ja '64.

DIESHTEYN, A.A. (Chernovitay)

Changes in the pituitary and in the sex glands in goiter cases in Bacovina Problemack. i gorm. 2 no.1:32-34 Ja-F '56. (MIRA 9:10)

1. Iz kafedry catologicheskoy anatomii (zav. - dotsent N.M.Shinkerman)
Chernovitskogo meditsinskogo instituta (dir. - dotsent M.M.Kovalev)
(GOITER,
endemic, gonadal & pituitary changes (Rus))

(PITUITARY GLAND, in various diseases, golter, endemic (Rus))
(GLANDS, in various diseases, golter, endemic (Rus))

DIKSHTEYN, A.A.

and private interior before the second

Unusual case of rupture of the aorta caused by injury. Vrach.delo no.2:191 F '57. (MJRA 10:6)

1. Kafedra sudebnoy meditsiny (zav. - dots. I.V.Kryzhanovskaya) Chernovitskogo meditsinskogo instituta. (AORTA---WOUNDS AND INURIES)

SHINKERMAN, N.M., prof.; DIKSHTEYN, A.A., dotsent

Work of the Chernovtsy Province Pathoanatomical Society for 1958. Arkh. pat. 21 no.9:91-93 159. (MIRA 14:8)

1. Predgedatel' Chernovitskogo oblastnogo obshchestva patologoanatomov (for Shinkerman). 2. Sekretar' Chernovitskogo oblastnogo obshchestva patologoanatomov (for Dikshteyn).

(CHERNOVISY PROVINCE—PATHOANATOMICAL SOCIETIES)

SHINKERMAN, N.M., prof.; DIKSHTEYN, A.A., dotsent

Activity of the Chernovtsy Province Society of Pathoanatomists in 1961-196k. Arkh. pat. 25 no.11:85-86 '63. (MIRA 17:12)

1. Predsedatel' Chernovitskogo oblastnoso obshchestva patologoanatomov (for Shinkerman). 2. Sekretar' Chernovitskogo oblastnogo obshchestva patologoanatomov (for Dikshteyn).

L 01053-67 EWT(1) ACC NR: AP6030953 SOURCE CODE: UR/0181/66/008/009/2566/2571 AUTHOR: Poltinnikov, S. A.; Dikshteyn, I. Ye. ORG: Institute of Semiconductors AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR) TITLE: Magnetic spectra of Y3-2*Ca2*Fe5-2*V2013 SOURCE: Fizika tverdogo tela, v. 8, no. 9, 1966, 2566-2571 TOPIC TAGS: ferrite, magnetic spectrum, ferrite garnet, anisotropy, anisotropy constant, rotation, penetration, saturation magnetization ABSTRACT: A study is made of the magnetic spectra of (Y3-2xC02x) [Fo2] (Fo2-xVx)O12 ferrite-garnets at, $\{Ca_{3,5}Bi_{0,5}\}$ $[Fe_2]$ $\{Fe_{1,75}V_{1,25}\}O_{12}$ and room temperature within a frequency range of 0.1-3100 Mc. Anisotropy constants (K₁) are computed from the rotation penetration factor, determined from the Kola-Kola diagrams, and magnetization saturation. The field of anisotropy increases considerably as $M_{\rm s}$ approaches zero. The authors express their appreciation to G. A. Smolenskiy for his interest in their work. Orig. art. has: 5 formulas, 2 [SP] tables, and 5 figures. [Authors' abstract] SUB CODE: 20/ SUBM DATE: 07Jan66/ ORIG REF: 003/ OTH REF: 005/

DIKSHTEYN, Ts. D.

Dikshteyn, Ts. D. "The treatment of 'nest baldness' with paraffin", Zdravookhraneniye Kazakhstana, 1949, No. 2, p. 9-13.

S 0: U-4630, 16 Sept. 53, (Letopis ' Zhurnal 'nykh Statey, No. 23, 1949).

DIESHTEYN, Ta.D.

Treatment of vitiligo. Vest.ven.i derm. no.2:57 Mr-Ap 153. (MLRA 6:5)

1. Alma-Atinskiy gorodskoy vendispanser No.1. (Skin-Diseases)

DIKSHTEYN, You dotsent

Atherosclerosis and hypertension, Vrach.delo no.5:465-467 My '57. (MLRA 10:8)

1. Kafedra patologicheskoy anatomii (zav. - prof. Sh.I.Krinitskiy) Meditsinskogo instituta v Rostove na Donu i kafedra patologicheskoy anatomii (zav. - dots. Ye.A.Dikshteyn) Stalinskogo meditsinskogo instituta

(ARTERIOSCLEROSIS) (HYPERTENSION)

DIKSHTEYN, Ye.A., Doc Med Sci — (diss) "Patomorph logy and pathogenesis by Mentingen (Staline, 1959, 24 pp (Voronezh State Med Inst), 225 copies (KL,44-53, 124)

-61-

DIESHTRYN, Ye.A.

Changes in the aorta and elastic arteries in hypertension. Vrach delo no.91945-949 S'58 (MIRA 11:10)

1. Kafedra patologicheskoy anatomii (zav. - prof. Sh.I. Krinitskiy) Rostovskogo na Donu meditsinskogo instituta i kafedra patologicheskoy anatomii (zav. - dots. Ye. A. Dikshteyn) Stalinskogo meditsinskogo instituta.

(ARTERIES)
(HYPERTENSION)

DIKSHTEYN, Ye.A.

Changes in the bronchial tree in pneumoconioses combined with bronchogenic cancer. Vop.onk. 7 no.3:20-26 161.

(MIRA 14:5)

(LUNGS-DUST DISMASES) (BRONCHI-CANCER)

DIKSHTEYN, Ye.A.

Pathomorphology of malignant nephrosclerosis. Trudy Inst. eksp. morf. AN Gruz. SSR 11:179-183 '63.

(MIRA 17:11)

1. Kafedra patologicheskoy anatomii Donetskogo gosudarstvennogo meditsinskogo instituta imeni Gorikogo.

DIKSHTEYN, Ye.A., prof.; LIKHT, L.L.

Work of the Donets Regional Society of Pathologists for 1960-1962. Arkh. pat. 26 no.5:91-95 '64 (MIRA 18:1)

1. Predsedatel pravleniya Donetskogo obshchestva patologoanatomov (for Dikshteyn). 2. Sekretar Donetskogo obshchestva patologoznatomov (for Lizht).

DIESHTEYH, Ye.A.; TARALBOVSKIY, M. L.

Effect of micohexendum and procerine on the development of experimental homora. Vop. cak. 11 no.5:67-72 165.

"HTPA 18:8)

1. To kafedry farmakologii lechebnogo fakuliteta (zav. - dotsent M.L. Tarribovskiy) i kafedry parclogichesko, anatomii (zav. - prof. Te.A.Dikshteyn) Donatskogo meditsinskogo instituta (rektor - prof. A.M.Ganichkin).

TKACHENKO, I.A., inzhener: DIKSHTEYN Ye.I., inzhener; VARSHAVSKIY, A.P., inzhener; GCNCHAREVSKIY, A.Ye., inzhener; NIKOLAYEV, A.G., inzhener; CHERNOGRUD, P.G., inzhener.

Tep casting of steel through two stepper tubes. Metallurg ne.5:29-32 My '56. (MIRA 9:9)

1. Magnitogorskiy metallurgicheskiy kembinat. (Smelting)

DIKSHETYN, YELT.

AUTHOR:

Goldenberg, I.B. and Dikshteyn, E.I., Engineers, Magnitogorsk

Metallurgical Combine.

TITLE:

New design of reversing valve. (Novaya konstruktsiya

perekidnogo klapana.)

PERIODICAL: "Metallurg" (Metallurgist), 1957, No. 2, pp. 28 - 29, (U.S.S.R.)

ABSTRACT:

Laboratory-scale investigations on models of the ordinary type of reversing valve used for open-hearth furnaces showed that the high pressure-drops produced were due to incorrect shape and the absence of special devices to facilitate the direction change of the gases. An improved design has been evolved in which guide vanes are provided. In model and full-scale tests this has been found to increase checker temperatures: e.g. where gas checker temperatures were 1 180 - 1 260 °C they rose to 1 240 - 1 300 °C after installing the new type valve. A 2.8% saving in coke-oven gas was thereby obtained. Ten such valves are in satisfactory service at

Magnitogorsk.

1 photograph.

133-8-6/28

AUTHORS: Bezdenezhnykh, A.A. and Bigeyev, A.M. (Cands.Tech.Sci.), Dikshteyn, Ye.I., Perchatkin, P.N. and Sirotenko, A.I., (Engineers).

TITLE: The development of the deoxidation process of rimming steel. (Usovershenstvovaniye tekhnologii raskisleniya kipyashchey stali).

PERIODICAL: "Stal'" (Steel), No.8, 1957, pp.701-707 (USSR).

Charles The W. No. 1.

ABSTRACT: An investigation of factors causing substantial variation in manganese losses during deoxidation of quality low carbon rimming steels (08 km, 08 km, 08 km, 10 and 08 km chemical composition is given in Table 1), produced in 400 t open hearth furnaces was carried out. The following students of MGMI participated in the investigation: V. Antipin, N.Kuskov, B.Khorshun and others. The composition of pig used varied within comparatively wide limits, % C 4.1-4.5, Mn 0.15-0.25, Si 0.65-1.9; S 0.025-0.055; P 0.085-0.150. The limits of composition of metal and slag during the individual smelting periods are given. The composition of metal before deoxidation %: C 0.06-0.09; Mn 0.04-0.09; S 0.030-0.033; P 0.007-0.010; slag: CaO 43-46; SiO₂ 11-17, FeO 10-20. For the deoxidation of steel the whole required amount of ferromanganese was added to the

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The development of the deoxidation process of rimming steel. (Cont.)

both in one lot at the beginning of tapping. Some retention of steel in the furnace after the above addition was used only when ferromanganese contained more than 1% of Si. Maximum possible manganese loss was calculated using A.M. Bigeyev's formula:

$$U_{\text{max}} = \frac{77.5 \text{ K}_{\text{Mn}}(\text{FeO})q}{100 + 0.775 \text{ K}_{\text{Mn}}(\text{FeO})q}$$
(1)

where: q - relative proportion of slag %; K_{Mn} - equilibrium constant of the deoxidation reaction (Mn) + (FeO) = (MnO) + Fe l. The dependence of maximum manganese losses in the furnace at 1600 C on the amount of slag and its FeO content is shown in Fig.l and the frequency distribution of total manganese losses during deoxidation of low carbon rimming steel in 400 t furnaces (170 melts) in Fig.2. The maximum manganese losses during deoxidation can vary between 60 and 70% while actual losses varied from 30 to 70% (average 40-50%), therefore to obtain metal of a required composition the

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133-8-6/28

The development of the deoxidation process of rimming steel. (Cont.)

influence of the following factors on manganese losses was studied. 1) The influence of retention time in the furnace after deoxidation; 2) Duration of tapping (Fig. 3); nace after deoxidation, 2, button of tapping a contint;
3) The influence of metal temperature before deoxidation;
4) The influence of FeO content in slag (Fig.5). This influence becomes obvious only at FeO content above 12-14%;
fluence becomes obvious only at FeO content above 12-14%; 5) The influence of silicon content in ferro-manganese (Fig. 6); 6) The influence of carbon content of metal before deoxidation (Fig. 7) and as during decarburisation of steel 08 km ore additions are often made (1-1.5 t) not long before deoxidation, the influence of this addition was also studied (Fig.8). On the basis of the data obtained the consumption of ferromanganese for deoxidation for MMK conditions was calculated, using a formula derived by A.M. Bigeyev:

T([m]f .. [m]r) [Mn] FeMn (100-U_{Mn}) $T_{\text{FeMn}} = 10^5$ -

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T_{FeMn} - consumption of ferromanganese for the where: deoxidation of the whole charge of steel in kg.; T -

133-8-6/28

The development of the deoxidation process of rimming steel. (Cont.)

furnace capacity, tons; MN f - manganese content of finished steel %; Mn r - residual manganese content in steel before decxidation, %; Umn - total manganese losses (in furnace, runner and ladle), %. The frequency distribution of residual manganese content before deoxidation is given in Fig.9. To facilitate calculations under works conditions, tables were prepared (2 and 3) of required ferromanganese additions for various operating conditions encountered in practice. An example of calculations is given. It is stated in conclusion that the application of the method of calculating the required ferromanganese additions in practice decreased the consumption of the latter by 1 - 1.5 kg/ton of steel and prevented the production of metal outside the composition required.

There are 3 tables, 9 figures and 5 Slavic references.

ASSOCIATION: Magnitogorsk Mining-Metallurgical Institute and MMK. (Magnitogorskiy Gorno-Metallurgicheskiy Institut i MMK).

AVAILABLE: Library of Congress

Card 4/4

SOV/137-58-9-18600

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 62 (USSR)

AUTHOR:

Dikshteyn Yell

TITLE:

Means of Increasing the Productivity of Steel-smelting Shops (Puti povysheniya proizvoditelinosti staleplavilinykh tsekhov)

PERIODICAL:

Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18,

pp 454-459

ABSTRACT:

In order to increase productivity, the following measures were undertaken at the MMK (Magnitogorsk Metallurgical Kombinat): a) An increase in the charge of 150-ton furnaces to 165 tons; b) employment of molds with internally heated hot heads; c) modification of the stripper cranes. At the same time efforts were made in the following areas: Development of a technology which would reduce the smelting time and improve the quality of steel; improved fuel supply for the furnaces; provisions for essential equipment; perfection of furnace design; coordination of all correlated sectors and departments. In 1955 hot down time was reduced to 3.2%. The operation of the slag yard where slag is broken up to proper size and the disposal of waste slags was organized more efficiently. In the period of 1944-1955 the

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SOV/137-58-9-18600

Means of Increasing the Productivity of Steel-smelting Shops

average weight of smeltings, the smelting time remaining the same, increased by 93 tons, whereas the consumption of conventional fuel was reduced by 57.6 kg/t or by 70%. Since 1943 the weight of a charge was increased to 380 tons. Simultaneously, the load-carrying capacity of ladle cranes was increased from 220 to 270 tons; also increased were the translational speeds of the charge cranes and the rates of lifting of loads. The vollume of the charging boxes was increased to 1.24 m3. In 1950 the electromagnetic cranes employed in the charge yards were modified in order to make them capable of greater speeds and increase their load-carrying capacity from 10 to 15 tons. The problem of reducing the casting time was resolved without resorting to increased speeds by a method of two-channel casting. The efficiency of fuel combustion was also increased. A factor of decisive importance was the changeover to the employment of magnesitechromite furnace crowns, a step which made it possible to raise the temperature of the flame and reduce the smelting time. Compared with 1944, the over-all increase in the output of the furnaces in 1955 was 80%. The composition of the liquid cast iron was stabilized. Further measures necessary to increase the productivity of the steel-smelting shops are as follows: a) Completion in 1957 of the construction of fuel-oil facilities and availability of natural-gas supply to Magnitogorsk; b) construction of additional mixers Card 2/3

SOV/137-58-9-18600

Means of Increasing the Productivity of Steel-smelting Shops

with a resulting increase in productivity of 9-10%; c) increase in the capacity of the charge boxes to 1.75 m³; d) expansion of the charge yards, which should increase the smelting of steel by 3-4% and will reduce the time of the charging operations; e) construction of compressors and heat-recovery boilers in open-hearth shops; f) increase in the number of casting platforms; g) processing of cast iron with oxygen and desulfurizing agents; h) improving the qualifications of workers and engineering and technician personnel; i) rationalization and fostering of inventive efforts.

I.B.

1.Foundries--Production 2. Industrial production--Development 3. Slags -- Preparation 4. Hoists--Design 5. Refractory materials--Applications

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KOROLEY, A.I.; BLINOV, S.T.; IUBENETS, I.A.; KOBURNEYEV, I.M.; TURUBINER,
A.L.; VASIL'IEV, S.V.; CHERNENCO, N.A.; BELOV, I.V.; TELESOV, S.A.;
MAZOV, V.F.; MEDVEDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.;
THUBETSKOV, K.M.; SHNEYEROV, YA.A.; SLADKOSHTEYEV, V.T.; PALANT,
V.I.; KUROCHEIN, B.N.; ZHDANOV, A.M.; BELIKOV, K.N.; SABIYEV,
M.P.; GARBUZ, G.A.; PODGORETSKIY, A.A.; ALFEROV, K.S.; NOVOLODSKIY,
P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MALAKH,
A.V.; VERKHOVTSEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHOV, A.I.;
BORODULIN, A.I.; VAYNSHTEYN, O.Ya.; ZHIGULIN, V.I.; DIKSHTEYN, YG.I.;
KLIMASENKO, I.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.;
ZHIDHESKIY, D.P.; MIKHAYLETS, N.S.; SIMPKANEV, P.N.; ZAVODCHIKOV,
N.G.; GUDEMCHUK, V.A.; NAZAROV, P.N.; SAVOS'KIN, M.Ye.; NIKOLAYEV,
A.S.

Reports (brief annotations). Biul. TSNIIGHM no.18/19:36-39 '57.

(MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshteyn). 2. Kiznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Borodulin, Klimasenko). 3. Chelyabinskiy metallurgicheskiy zavod (for Imbenats, Vaynshteyn). 4. Zavod im. Dzherzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Turubiner, Masov, Podgoretskiy, Marakhovskiy, Savos'kin).

6. Makeyevskiy metallurgicheskiy zavod (for Vasil'yev, S.V., Mal'kov, Zhidetskiy, Al'ferov). 7. Stal'proyekt (for Chernenko, Zhdanov, Zavodchikov). 8. VNIIT (for Belov). 9. Stalinskiy metallurgicheskiy zavod (for Telesov, Malakh).

(Continued on next card)

KORCLEV, A.I .-- (continued) Card 2.

10. Nizhne-Tagil'skiy metallurgich;skiy kombinat (for Medvedev, Novolodskiy, Vecher). 11. Zavod "Asovstal'" (for Bul'skiy, Slepkanev). 12. Tsentral'nyy nauchno-issledovatel'skiy institit chernoy metallurgii (for Trubetskov). 13. Ukrainskiy institut metallov (for Snneyerov, Sladkoshteyev, Kotin). 14. Zavod "Krasnyy Oktyabr'" (for Palant). 15. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Kurochkin). 16. Zavod im. Voroshilova (for Sabiyev). 17. Chelyabinskiy politekhnicheskiy institut (for Morozev). 18. Giprostal' (for Garbuz). 19. Ural'skiy institut chernykh metallor (for Pastukhov). 20. Zavod im. Petrovskogo (for Zhigulin). 21. Ministerstvo chernoy metallurgii USSR (for Moločkov, Siverskiy). 22. Glavspetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev).

15(2)

AUTHORS:

Bron, V. A., Dikahteyn, Yc. I., Medyakova, SOV/131-58-12-4/10

M. V., Nazarov, K. S., Rigmant, N. M.

TITLE:

Increase in Stability and Operation Efficiency of the Regenerative Checker Chambers of 400 Ton Martin Furnaces (Povysheniye stoykosti i effektivnosti raboty nasadok re-

generatorov 400-T martenovskikh pechey)

PERIODICAL:

Ogneupory, 1958, Nr 12, pp 545 - 551 (USSR)

ABSTRACT:

The 400 ton Martin furnaces possess small specific volumes of the slag containers and checker chambers (Table 1), which results in an intense impurification by melting dust and a rapid wear of the checker chambers. Chromo-aluminous refractories of the Semilukskiy works were tested (see paper by V. A. Bron, I. V. Savkevich, R. S. Mil'shenko, Ref 1) in order to increase the stability of the checker chambers.

Figure 1 presents the temperature changes of chamotte, forsterite and chromo-aluminous bricks when the butterfly valves are tilted over. The temperatures were measured by M. G. Kozhanov, V. G. Beloshapkin under the supervision

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of A. M. Kulakov (Ref 2). Figures 2,3,4, and 5 present

Increase in Stability and Operation Efficiency of the SOV/131-58-12-4/10 Regenerative Checker Chambers of 400 Ton Martin Furnaces

the state of the checker bricks after 213 meltings. The bricks are covered with melting dust which sometimes is caked together with them. The chemical composition of the melting dust shows (Table 2) that an enrichment of the dust with alumina is effected at the places of contact with chromo-aluminous bricks, which is connected with an increase in refractoriness, as confirmed by the petrographical investigation (carried out by T. F. Raychenko, Ref 3). Table 3 gives the characteristics of chromo- aluminous bricks after operation in the top-most unit of the checker chambers of the air and gas generators. Figure 6 shows the microstructure of the slag cover of a chromoaluminous brick after working in the top-most unit of the checker chambers of the air generator. Table 4 presents the operation values of the checker chambers of 400 ton Martin furnaces produced from various refractory bricks, as well as the repairs carried out. The thermal conductivity of refractory bricks before and after working in the regenerative checker is demonstrated in figure 7 for chromo-aluminous, dinas, chamotte and forsterite bricks.

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Increase in Stability and Operation Efficiency of the SOV/131-58-12-4/10 Regenerative Checker Chambers of 400 Ton Martin Furnaces

Chromo-aluminous bricks yielded the best results. The use of these bricks under simultaneous washing of the checker chambers promotes the reduction of the melting duration and fuel consumption (Fig 8). Conclusions: The use of chromo-aluminous bricks with an alumina content of 78-80% and a chromium oxide content of 9-11% in the upper 8-12 units of the checker chambers increases, in connection with their washing, the stability of the checkers and the efficiency of furnace operation. It is regarded as necessary to improve the methods of washing the checkers and test other highly refractory products in the checkers of the 400 ton Martin furnaces. There are 8 figures, 4 tables and 1 Soviet reference.

Card 3/3

SOV/133-59-2-5/26

AUTHORS:

Voronov, F.D., Engineer,

Dikshtevn Ye.I.

Zuts, K.A., Candidate of Technical Sciences, Docent

Trifonov, A.G.

TITLE:

An Experience in Converting a 400 Ton Open Hearth Furnace to Firing with Sulphurous Fuel Oil (Opyt perevoda 400-t

martenovskoy pechi na sernistyy mazut)

PERIODICAL: Stal', 1959, Nr 2, pp 112-116 (USSR)

ABSTRACT:

The Magnitogorsk Metallurgical Combine was designed with a balanced fuel economy i.e. coal was delivered only for coking and the coke owen and blast furnace gases should be sufficient for all other fuel requirements. However, an improvement in the operation of blast furnaces lead to a considerable decrease in the coke consumption and thus to a decrease in the output of coke oven gas. Moreover,

the calorific value of blast furnace gas decreased from 944 K cal/m² in 1952 to 866 K cal/m² in 1957 and its consumption for heating blast increased as much higher blast temperatures are used. In addition some new gas

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SOV/133--59--2--5/26

An Experience in Converting a 400 Ton Open Hearth Furnace to Firing with Sulphurous Fuel Oil

consumers were introduced (sheet rolling mill etc.) so that a wider use of fuel oil became necessary. A description of the transfer of a 400 ton open hearth furnace from firing with a mixture of coke oven and blast furnace gas to oil firing and operational results obtained is given. The design of the furnace remained the same only the design of parts was modified. Oil was supplied through two injectors placed outside of the casing. The two oil flames from both sides of the gas part unit into one flame at a distance of 1 m from the injectors (Fig.2). Air is being blown by a fan via former gas conduit. The following operational results were obtained: consumption of conventional fuel 105 kg/t of steel instead of previous 130 kg/t; mean duration of heat 12 hrs 15 min instead of 13 hours; the durability of regenerators to the first hot repairs 274 heats instead of 170; the volume of the regenerators changed during small cold repairs 260 m³ instead of 350 m³. However, due to high sulphur content of oil (about 2%) a noticeable increase of the transfer

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SOV/133-59-2-5/26

An Experience in Converting a 400 Ton Open Hearth Furnace to Firing with Sulphurous Fuel Cil

of sulphur to the metal bosh was observed. For this reason smelting of steels in the furnace was limited to grades with the permissable sulphur content of 0.045%. There are 9 figures.

ASSOCIATION: Magnitogorskiy Metallurgicheskiy Kombinat i Magnitogorskiy Gorno-metallurgicheskiy Institut (Metallurgical Combine and Magnitogorak Institute of Mining Metallurgy)

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S/133/60/000/012/003/015 A054/A027

AUTHORS &

Bas'yas, I.P., Vyaznikova, T.A., Koksharov, V.D., Dikshteyn, Ye.

I., Selivanov, I.A., Makarychev, A.R., and Nazarov, K.S.

TITLE &

Optimum Working Conditions for Basic Roofs of Open-Hearth

Furnaces

PERIODICAL: Stal', 1960, No. 12, pp. 1086-1092

TEXT : In order to investigate the factors influencing the useful life of magnesite-chromite bricks used for open-hearth furnace roofs tests were carried out in the Magnitogorsk Metallurgical Combine (1957-1959) with furnaces fired a) with masut only, ('masut type furnace"); b) with blast-furnace coke and an addition of 30 kg/hour of tar ("gas-type" furnace); c) with blast-furnace coke and an addition of 500-700 kg/hour of coal tar, ("mixedtype" furnace). The tests served to determine the temperature of the magnesite-chromite bricks at various distances from the working surface of the roof, the composition of the atmosphere under the roof, the quantity and composition of dust and the rate of the decomposition in bricks. For these purposes the following devices were employed: \$\PM\$ (FEP) type photoelectric pyrometer, platinum-rhodium and platinum thermocouples, mounted in a 75 x 75 x

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Optimum Working Conditions for Basic Roofs of Open-Hearth Furnaces

460 mm magnesite-chromite rcd, the hot junctions of the thermoccuples being at 0, 10, 15 and 30 mm distance from the working surface. Where the hot junction was placed immediately on the surface, it was protected by a silicium-rich cap, with a wall 0.8 mm thick; a single-point potentiometer with a disc scale rotating at 0.5 rph; for gas analysis TYTI (GKhP-3) type and for random teste BTM-2 (VTI-2) type analyzers were used. The melting dust under the roof was collected by a water cooled detachable brass tube connected in series with water filters, gascmeters and ejectors. For introducing the apparatus in the under-roof area 7 openings, (80 x 80 mm) were made in the roof. In the tests the relationship between the character of temperature change of the working roof surface and the duration of break in firing, the opening of the charging doors, the time during which cold materials are in the furnace, the duration of various processes and repairs were investigated for all three types of furnaces. It was found that the useful life of the roof in the first place depended on the kind of fuel used, on the place where fuel was fed in the furnace and on thermal loads. The shortest useful life was observed for masutfired furnaces, working under unfavorable atmospheric conditions: CO was frequently, carbohydrates were occasionally found in the roof zone. Even when Card 2/14

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part of the gas fuel was replaced by a liquid (max. 500-700 kg/hour) the useful life of the roof was shortened, mainly when charging masut or tar through tuyeres mounted at the external sides of the fuel tanks. Hydrocarbons are harmful because the ceramic surface of the bricks acts as a catalyst and promotes their decomposition during heating and thereby also the activation of oxidation-reduction processes which deteriorate the iron-rich zones of the refractory bricks. When firing with partly liquid or all-liquid fuel the temperature conditions are also adversely affected because the velocity of temperature changes on the working surface increases during reversing (up to 300°C/min), the temperature drop can attain 200°C and more in this interval; the ccoling time of the roof increases during charging while the temperature can decrease to 1,300°C and lower. When cooling below 1,500-1,450°C, the refractory bricks deteriorate considerably under the effect of temperature change, because the working zones of refractory material pass from a semiplastic heat-resistant condition into a brittle, non-heat-resistant state. As, however, in some cases cooling even below 1,000°C (for instance, during repair) does not increase deterioration of the bricks, it can be assumed that actually not cooling itself, but its accompanying phenomena, such as speed

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Optimum Working Conditions for Basic Roofs of Open-Hearth Furnaces

and frequency of heat changes during the non-heat-resistant period of the working zones in refractory bricks are the causes of their decomposition. best of operation conditions of the roof is, when it is not cooled below 1,500°C. However, with the present methods of charging high-capacity furnaces this can be obtained only by extending the charging time or by intensifying the combustion of fuel. When having to cool the roof under 1,450-1,500°C during charging, the number of reversals should preferably be reduced by intensifying combustion as much as possible, and by increasing the intervals between reversings. As the changes in the composition of atmosphere under the roof, recurring for 7-9 minutes, also add to the decomposition of the refract-ory bricks, care should be taken to prevent any reducing medium from entering this area, not even for a short time. Refractory bricks deteriorate more quickly in the first phase of the furnace campaign than in the subsequent phase. This shows that decomposition takes place quickly when there are refractory bricks with a high content of iron oxides in the working area. There are 6 figures, 8 tables and 3 Soviet references. ASSOCIATION: Vostochnyy institut ogneuporov (Eastern Institute of Refractory Material), Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Card 4/

MOROZOV, Aleksendr Nikoleyevich, prof., doktor tekhn. neuk; YEFANOV, N.I., retsenzent; BELIKOV, K.N., inzh.-martenovets, red.; DIKSHTEYN, Ye, I., inzh.-martenovets, red.; KRYMHOVA, M.L., red. izd-va; TURKINA, Ye.D., tekhn. red.

[Modern open-hearth process] Sovremennyi martenovskii protsess. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1961. 600 p.

(MIRA 14:5)

(Open-hearth process)

S/133/61/000/003/002/014 A054/A033

AUTHORS:

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Dikshteyn, Ye. I.; Goncharevskiy, Ya. A.; Zuts, K.A.; Antipin, V. G.; Koshanov, M. G.; Zarzhitskiy, Yu. A.; Kulakov, A. M.;

TITLE:

Mastering the operation of a 500-ton open-hearth furnace fired by coke-oven gas and mazut

PERIODICAL: Stal', no. 3, 1961, 210 - 214

TEXT: The 500-ton open-hearth furnace designed by the "Stal'proyekt" operates according to the scrap-ore process and is fired by cold coke-gas (4100 cal/m³) and mazut (9600 cal/kg). The principal data of the furnace are: charge 500 - 550 tons, hearth area 105 sq m, depth of the bath 1.2 m, height (over the altar level) of the crown 3.15 m, of the air partition 1.35 (1.2) m, of the burner axis 1.30 (1.6) m, useful volume of slag chamber 142 m³, stack height 90 m. The results obtained by the furnace design and firing system could be improved by incorporating several modifications. For instance, there are two gas-manut burners, one on either side of the furnace. This is a simple structural solution but did not prove very effi-

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cient. By applying two or three burners on either side of the furnace this situation could be improved. The blast produced is not enough to ensure the heat conditions required. The vacuum produced by the stack and wasteheat boiler (60 and 75 mm water column, respectively) is inadequate to efficiently evacuate the gaseous combustion products from the operating area of the furnace. The efficiency of the blast system is unfavourably affected by losses in the cold-air exhaustion system through the slag chambers, which require a better insulation. The heat transfer capacity of the torch was also unsatisfactory. Carbon monoxide in the combustion products in the vertical channel already disappeared when there was 3 - 3.5 % oxygen present, indicating an inadequate mixing of fuel and air. In order to improve the mixing and radiation capacity of the torch, compressed air was introduced separately through a special tube. This, however, did not solve the problem and had to be put down to the wrong type of feed-opening. Tests were also carried out to raise the heating sapacity of the torch by improving the operation of the pulverizer, by means of increasing its capacity, i.e., the consumption of high-pressure steam in the pulverizer. The radiation capacity of the torch for cold coke-gas and mazut depends largely on the ratio at which these two fuels are consumed. For the furnace in question the optimum

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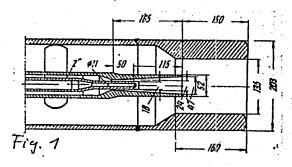
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condition for the torch was obtained when 1700 - 1800 hg/h mazut was consumed and when the thermal load of the furnace amounted to 40 mill. cal/h, (Fig. 6). Tests carried out to improve the furnace operation by increasing the heat load to 50 mill.cal/h only resulted in greater wear, without improving the operational conditions. Actual improvement was obtained by decreasing heat losses through the stoke holes, amounting to 2 mill.cal/h, by a suitable insulation and by feeding 1800 - 2000 Hm3/h compressed air into the torch, thus increasing its temperature to 1850°C and distributing it more uniformly along the torch. By increasing the heating capacity of the torch, the time required for the optimum heating of the charge and for burning out carbon was reduced. By intensifying the thermal conditions of the furnace, desulfurization became more intensive and it was possible to smelt 08 km (08kp) grade steel in the furnace. Although the reconstruction of the furnace and the application of modifications improved and stabilized the operation of the 500-ton mixed fuel furnace, the burner system will still have to be modified and a suitable method to be applied for preparing the gas, in order to change over from mixed fuel to gas-firing only. There are 9 figures and 2 tables.

Card 3/5

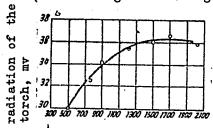
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Figure 1: Gas-mazut burner of the 500-ton open-hearth furnace.



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Figure 6: Dependence of the radiation of the torch on the amount of mazut consumed (when firing also coke gas)



Mazut consumption, kg/h

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S/133/61/000/003/002/014 A054/A033 Mastering the operation of a ... Figure 8: Change of the magut burner structure
a) after reconstruction,
b) before reconstruction.

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S/193/61/000/006/001/007 A004/A104

AUTHORS:

Dikshteyn, Ye. I.; Antipin, V. S., and Kozhanov, M. G.

TITLE:

The operation of open-hearth furnaces with single-channel ports

PERIODICAL: Byulleten tekhniko-ekonomicheskoy informatsii, no. 6, 1961, 3-6

One of the plants of the Russian Federation has introduced 500-ton open-hearth furnaces with single-channel ports fuelled by a mixture of cold coke gas and mazout. The furnaces are operated on the scrap-ore process utilizing 65% of liquid pig iron. They are lined with basic refractories, slag pocket and regenerator roofs are of the massive suspension type. The coke oven gas with a calorific value of 4,100 kcal/nm3 is supplied through a 400 mm diameter gas pipeline at a pressure of 3,000 mm water column to the burners with a reduced pressure of 1,000-1,500 mm water column. The mazout with a calorific value of 9,600 kcal/ hour, containing 0.5-1.5% sulfur, is supplied to the furnace at a pressure of 6-7 atm. The mazout is atomized at a pressure of 10 atm and a temperature of 200°C. Reversible dampers of the Shvir system 2,200 mm in diameter are used which do not fully meat the requirements of modern big-volume open-hearth furnaces, but, according to the authors, hitherto no more expedient type of damper has been

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The operation of open-hearth furnaces ...

developed. Fig. 1 shows the structural changes which have been carried out to improve the furnace operation. Legend to Fig. 1: 1) prior to repair; 2) after repair; 3) gas-mazout burner installation. The heat losses through the breast were reduced nearly by a factor of 4 and amounted to 0.5 · 106 kcal/hour. The compressor air pressure was raised from 2 to 5 atm. As a result of these alterations the absolute flame temperature increased by 50°C and more, while the maximum heating zone moved nearer to the flame root. Tests showed that it is necessary to supply 1,800 - 2,000 m³ air per hour. The modernization of the port made it possible to increase the furnace efficiency by 15.6% and cut down the heat consumption for the steel production by 19.5%. A great influence on the efficacy of the gas-mazout flame of open-hearth furnaces with single-channel ports is exerted by the height of the air damstones and by the angle of inclination of the burners. Various angles in the range of 8-13 relative to the bath level were tested and it was found that the maximum heat transfer was obtained with great angles of inclination of the burners. On one of the furnaces the burner design was altered in such a way that the mazout was not supplied through a sprayer located in the center of the gas burner but through two sprayers cut in the body of the breast, which resulted in a higher flame radiation. The table shows the distribution of thermal loads during the different heating periods prior to the

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The operation of open-hearth furnaces ...

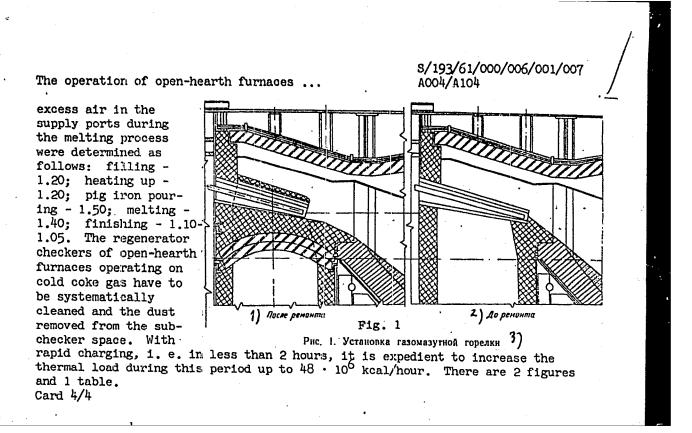
alterations of the port design and after.

1) operation; 2) prior to port alteration; 3) after port alteration; 4) filling; 5) charging; 6) heating up; 7) pig iron pouring and 1st hour of melting; 8) melting; 9) end of melting; 10) finishing.

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The maximum flame radiation is attained at a heat consumption of mazout of 42-45% relative to the total thermal load. After the port design had been altered the heating capacity of the furnace increased, which made it possible to cut down the heating up period of the charge prior to the pig iron pouring from 2 to 1.5 hours. Increasing the thermal loads, the optimum values for the coefficients of

Card 3/4



VECHER, F.A., ingh.; GERMAIDZE, G. Ye., ingh.; PANFILOV, M.I., dotsent; KHIL'KO, M.M., ingh.; MERSHCHIY, N.P., ingh.; ALFEROV, K.S.., ingh.; ANTONOV, S.P.; DIKSHTEYN, Ye.I.; YAGNYUK, M.I.; BELIKOV, K.N.; GONCHAREYSKIY, Ya.A.; TRIFONOV, A.G.; SEDACH, G.A.

"Open-hearth plants with large-capacity furnaces" by D.A. Smoliarenko, N.I. Efanova. Reviewed by N.A. Vecher and others. Stal' 21 no.2:125-126 P '61. (MIRA 14:3)

1. Sverdlovskiy sovet narodnogo khozyaystva (for Vecher, Germaidze, Panfilov).

(Open-hearth furnace—Design and construction)
(Smoliarenko, D.A.) (Efanova, N.T.)

DIKSHTEYN, Ye.I.; GONCHAREVSKIY, Ya.A.; ZUTS, K.A.; ANTIPIN, V.G.; KOZHANOV, M.G.; ZARZHITSKIY, Yu.A.; KULAKOV, A.H.

Mastering the operation of 500-ton open-hearth furnaces on coke gas and full oil [with summary in English]. Stal*21 no.3:210-214 Mr 161. (MIRA 14:6)

(Open-hearth furnaces -- Combustion)

VARSHAVSKIY, A.P., inzh.; DIKSHTEYN, Ye.I.

Using various sinters in large-capacity open-hearth furnaces. Stal' 22 no.1:20-23 Ja '62. (MIRA 14:12)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Sintering) (Open-hearth process)

AGAPOV, V.F.; HEZDENEZHNYKH, A.A.; PERCHATKIN, P.N.; DIKSHTEYN, Ye.I.

Fluxed sinter of sulfurous ores used in open hearth smelting. Stal' 22 no.8:697-700 Ag '62. (MIRA 15:7)

(Open hearth furnaces--Equipment and supplies)

VORONOV, F.D.; TRIFONOV, A.G.; KHUSID, S.Ye.; INKSHTEYN, Ye.L.; VAL'PITER, E.V. SNEGIREV, Yu.B.; ANTIPIN, V.G.; Prinimali uchastiye: SMIRNOV, L.A.; KAZAKOV, A.I.; YELIZAROV, A.G.; KULAKOV, A.M.; KOZHANOV, M.G.; ZARZHITSKIY, Yu.A.; ARTAMONOV, M.P.; GOL'DENBERG, I.B.; ROMANOV, V.M.; NOVIKOV, S.M.; MAYEVSKIY, A.B.; DMITRIYEV, I.; MANZHULA, M.; BEREZOVOY, I.A.; ZUTS, K.A.; BADIN, S.N.; TATARINTSEV, G.; MITROFANOV, N.G.; GAVRILOVA, K.M.; IVANOV, N.I.

Operating a 400-ten open-hearth furnace on casing-head gas.
Stal' 20 no. 7:594-598 Jl '60. (MIRA 14:5)

(Open-hearth furnaces-Equipment and supplies)

VORMOV, F.D.; BIGEYEV, A.M.; DIKSHTEYN, Yo.I.; TRIMONOV, A.G.; KAZAKOV.
A.I.; KOROLEV, A.I.; BORODIN, G.L.; ANTIPIN, V.G.; KULAKOV, A.M.;
KOZHANOV, M.G.; GAZHUR, V.F.

Investigating the operation of 400-ton open-hearth furnaces following redesign. Stall 22 no.10:904-907 0'62. (MIRA 15:10)

1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy gorno-metallurgicheskiy institut.

(Open-hearth furnaces)

DIKSHTEYN, Ye.I.; DEYNEKO, D.I.; ANTIPIN, V.G.; MOROZOV, A.N., doktor tekhn. nauk, prof., nauch. red.; SVET, Ye.B., red.

[Steelmaking at the Magnitogorsk Metallurgical Combine] Staleplavil'noe proizvodstvo na MMK. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1963. 43 p. (MIRA 17:6)

VORONOV, F.D., prof.; D'YAKONOV, A.I., kand.tekhn.nauk; DIKSHTEYN, Ye.I., inzh.; TRIFONOV, A.G., inzh.; LORMAN, V.V., inzh.; KAZAKOV, A.I., inzh.; KOVALIK, I.S., tekhnik

Technological characteristics of Magnitogorsk Metallurgical Combine openhearth furnace operations using compressed air in the fuel spray. Stal' 23 no.12:1088-1091 D '63. (!IRA 17:2)

1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy gornometallurgicheskiy institut.

FREYDENBERG, A.S.; DIKSHTEYN, Ye.I.; TRIFONOV, A.G.; ARTAMONOV, M.P.; TVOROGOV, A.R.; SHAKHLIN; V.I.; TARASOV, A.F.

Repair of tapping holes on open-hearth furnaces. Metallurg 9 no.7:20-22 J1 4. (MIRA 17:8)

1. Magnitogorskiy metallurgicheskiy kombinat.

DIKSHTEYN, Ye.I.; MAGIDSON, M.A.; SHATUKHOV, A.I.; GAZHUR, V.F.

Improving the luminance and organizing the natural gas fuel spray. Stal' 24 no.10:890-892 0 '64. (MIRA 17:12)

1. Magnitogorskiy metallurgicheskiy kombinat i Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.

IGNATOVA, T.S.; FLYAGIN, V.G.; POFOV, A.D.; CHUKREYEVA, Ye.I.; DIESTEYN, Ye.I.; NAZAROV, K.S.; MAKARYCHEV, A.H.

Manufacture and testing of highly resistant ladle firebrick. Ogneupory 29 no.11:489-495 64. (MIRA 18:1)

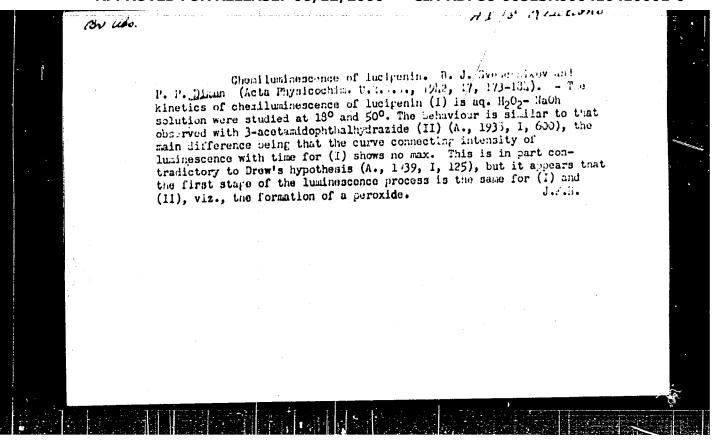
1. Vestochnyy Institut ogneuporov (fer Ignatova, Flyagin, Pepev, Chukreveva). 2. Magnitogorskiy metallurgicheskiy kombinat (for Dikshteyn, Nazarov, Makarychev).

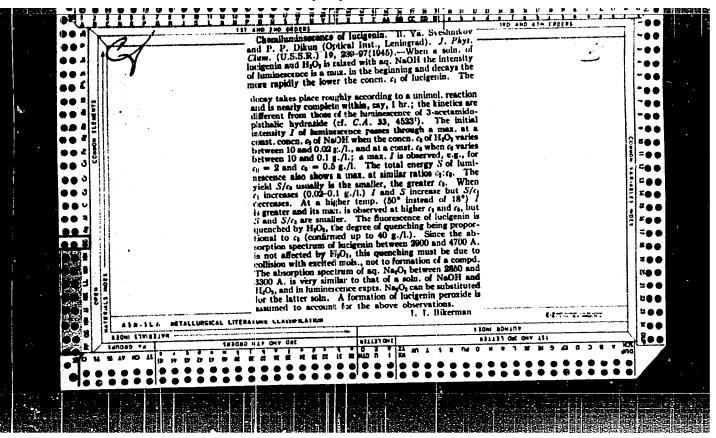
DIKTANAS, J.

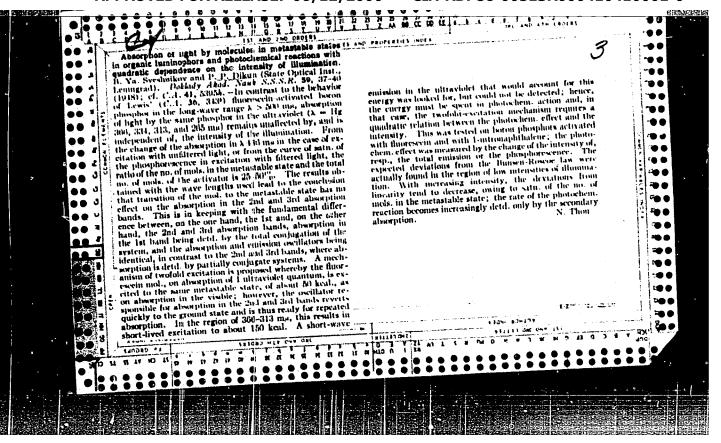
Thyroid function and coronary insufficiency. Sveik. apsaug. 9 no.216-9 F'64

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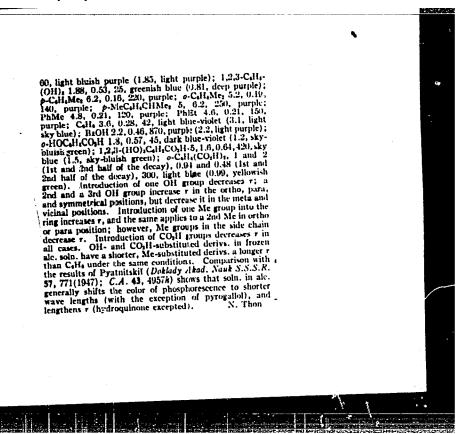
<u> </u>	lelation of the Duration of Phosphorescence of Luminophores to the Viscosity of the Solvent, reshnikov and P. P. Dikun, State Optical Inst, sak SSSR," Vol IX, No 4, pp 571-4.			8	•
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	"On the Relation of the Duration of Phospho Organic Luminophores to the Viscosity of t B. Ya. Sveshnikov and P. P. Dikun, State Op & pp "Dok Ak Nauk SSGR," Vol LX, No 4, pp 571-4.	Reports subject experiments. Organic luminophore used were including comage for low viscosities (0 poisses) and hard candy for high viscosities (6 poi Viscosity was altered by varying solvents, e.g., glycerine, ethylene glycol, etc. Exciting light			
1 5	Organic Luminopi B. Ya. Sveshnikov k yp "Dok Ak Nauk SSE	Reports subject experiments. Organic luminophores used were rhoduline crange for low viscosities (0.2 polse) and hard condy for high viscosities (6 polses) Viscosity was altered by varying solvents. e.g., glycorine, willyless glycol, etc. Exciting light	3 \$ 3		DIXON, P. P.
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35010. Spektry fosforostsentsii bensola i ejo metil'nykn sameshchemydd. Zhurnal eksperim i beoret. fiziki, 1949, VYP. 11, S. 1000-20--Bibliogr: 21 Nazv. SVESHINIKOV, B. YA.

SO: Letopis' Zhurnal'nykh Statey, Vol. 19, Moshva, 1919

Phosphorecorne spectra of beasene and its methyl derivatives. It. J. Dibbon-andi B. Va. Sveshnikov (State Optical Inst., Leningrad). Zhur. Ekspil. Teoret. Fiz. 19, 1000-20(1049). — In frozen ale. soln. at the temp. of liquid sir, the short-trave part of the phosphorescence spectrum of C.H. shows a distinct vibrational structure. The observed frequencies are 20515 (v.w.), 28800 (v.w.), 28114 (m.), 23022 (v.st.), 25340 (m.), 25312 (m.), 25144 (st.), 23021 (v.st.), 23710 (st.), 25350 (w.), 23100 (m.), 24107 (st.), 23931 (w.), 23730 (m.), 23535 (w.), 23100 (m.), 24020 (v.st.), 24710 (st.), 24510 (m.), 24350 (w.), 23100 (m.) (st.). The vibration frequencies are 1505, 1187, 1000, and 655 cm. -1, corresponding to the Raman and infrared frequencies 1500, 1187, 102, and 685, with the respective designations 8, 9, 1, and 4, of the symmetry E_1 , E_2 , the and B_{10} , tesp. With the exception of the 2nd line, all lines fit the formula $r = r_0 = n_{10} = n_{10} = n_{10}$, where n_1 can be all long n_1 or n_2 of the symmetry E_1 , E_2 , the observed frequencies are $r_0 = n_{10} = n_{10}$, and $r_0 = n_{10} = n_{10}$, and $r_0 = n_{10} = n_{10}$, the observed frequencies are $r_0 = n_{10} = n_{10}$, and $r_0 = n_{10} = n_{10}$, $r_0 = n_{10}$

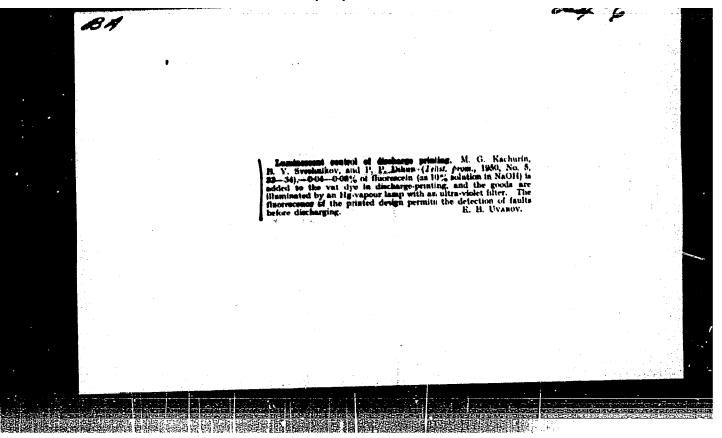
A₁*, and A₁*, resp. For p-CALMe₁, observed frequences 28108(m.), 27810(v.w.), 27375(m.), 28085(m.), 28590(v. sc.), 20102(w.), 25704(w.), 23736(m.), 28085(m.), 24180(w.), 25704(w.), 23784(m.), 23144(w.), 25970(w.), 2284(v.w.); the vibration frequencies, 1578, 182, 703, 232, and 4016 cm. °), are identical with the Ramaninfrared 1575, 182, 826, 313, and 1016, designations 86, 9a, 1, 9b, and 8a, symmetry B₁₀, A₂, A₃, B₄₀, and A₂, resp. For a-CalfaMe₂, 28704(m.), 2848(w.), 27044(m.), 27345(v.st.), 26878(v.w.), 26447(st.), 20086(st.); vibrations 2684, 1117, and 763 cm. °, designations 8a, 9a, and 1, resp., symmetry A. For m-CalfaMe₂, 28123 (m.), 27600(w.), 27333(m.), 20732(v.st.), 2630(v.w.), 20080(st.), 2572(st.), 2593(w.), 2633(st.), 2634(w.), 2423(m.); vibrations 1502, 945, and 724 cm. °, designations 8a, 7b, and 12, resp., symmetry A₁, B₁, and A₂. For PhMe, 2800(m.), 23470(w.), 27900(m.), 27730(st.), 2733(v.), 25724(m.), 24627(m.), 24627(m.), 24627(m.), 24627(m.), 246316(st.), 20163(st.), 25724(m.), 24627(m.), 24627(

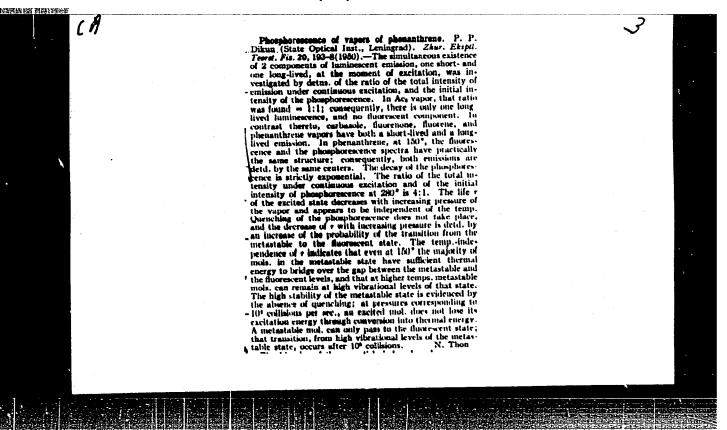


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USSR/Physics - Phosphorescence Spectrum Analysis G"Investigating Mesitylene's Phos P. P. Dikun, B. Ya. Sveshnikov, M. Dok Ak Nauk SSSR" Vol LXV, No 6 Substitution of H atoms by CH, g symmetry of molecule relative to atomic masses. Therefore, the qu atomic masses. The qu atom	Conto
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USSR/Physics - Phosphorescence

"Duration of Phosphorescence of Benzene and Its Derivatives," P. P. Dikun, A. A. Petrov, B. Ya. Sveshnikov

"Thur Eksper i Teoret Fiz" Vol XXI, No 2, pp 150-

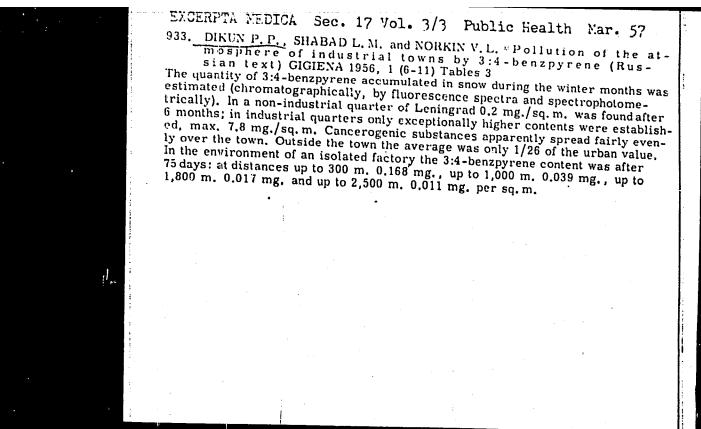
Presents data obtained by authors and from lit on duration of metastable state of 60 benzene deriv and of 6 aliphatic ketones in soln at temp of liquid air. Shows, besides small exceptions, extinguishment const is same in ultraviolet, blue and green bands and extinguishment law is nearly exponential. LC

Spectrophotometric method for determining the approximate concentration of 3,4-benzopyrene in mixtures of undertermined composition. Vop.onk.

l. Laboratoriya eksperimental'noy onkologii (zav. chlen-korr. AMN SSSR prof. A.I.Serebrov)

(HENZATHRACENES, determination,

spectrophotometric, in mixtures of undetermined composition)



DIWUN, E. P.

VOYTELOVICH, B.A. DIVIN P.P.; DYMARSKIY, L.Yu.; SHABAD, L.M.

Comparative study of the incidence of malignant tumors in Tukums District in the Latvian S.S.R. Vop.onk. 3 no.3:351-357 157.

1. Iz Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov). Adres avtorov: Leningrad, P-129.
2-ya Berezovaya alleya, d.3, Institut onkologii AMN SSSR (NEOPLASMS, statist.
in Latvia (Rus))

DIEGNAMENTALISMA PROPERTY (C. C.)

Fluorescence spectral analysis of products of synthetic liquid fuel manufacture in order to detect 3.4-benzopyrene [with summary in English]. Vop.onk. 4 no.3:289-291 '58 (MIRA 11:8)

1. Iz laboratorii eksperimental'noy onkologii (zav.- chelm-korrespondent AMN SSSR, prof. L.M. Shabad) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR, prof. A.I. Serebrov). Adres avtora: Leningrad, 129. 2-ya Berezovaya alleya, d.3/5. Institut onkologii. (BENZOPYRENE)
(LIQUID FUELS--SPECTRUM)

GORELOVA, N.D., DIKIN, P.P.

Detection of 3.4-henzopyrene in certain species of smoked fish; fluorescent spectral analysis [with summary in English].
Vop.onk. 4 no.4:398-405 58 (MIRA 11:9)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chl.-korr. AMN SSSR prof. L.M. Shabad) Instituta onkologii AMN SSSR (dir. deystv. AMN SSSR prof. A.I. Serebrov).

(HENZOPTRENES, determ.

3,4-benezopyrene in smoked fish, fluorescent-spectral analysis (Rus)
(FISH, same (Rus))
(FOOD, same (Rus))

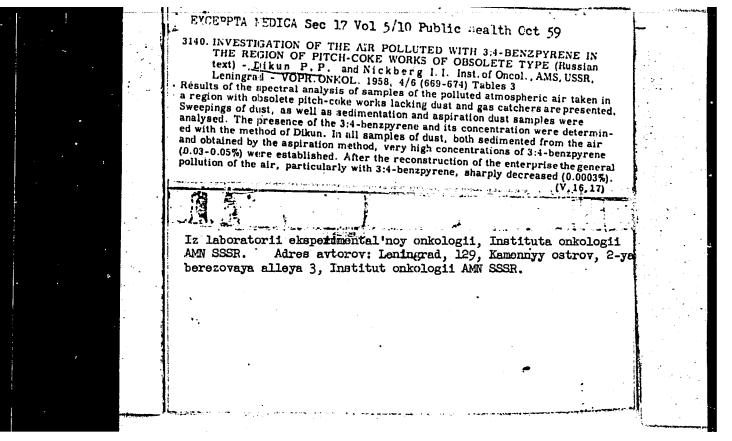
GORELOVA, N.D., DIKUN, P.P.

Detection of 3,4-benzopyrene in smoked and half-smoked sausage; fluorescent-spectral analysis. [with summary in English]. Vop. onk. 4 no.4:405-408 58 (MIRA 11:9)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chlen.-korr. AMN SSSR prof. L.M. Shabad), Instituta onkologii AMN SSSR (dir. - deystv. chlen. AMN SSSR prof. A.I. Serebrov). Adres avtorov: Leningrad, P-129, 2-ys Berezovaya alleya, d.3/5, Institut onkologii AMN SSSR.

(BENZOPYRENE), determ.

3.4-benzopyrene in smoked & half-smoked sausage,
fluorescent-spectral analysis (Rus))
(MEAT,
same (Hus))



GRUSHKO, Ya.M.; DIKUN, P.P.; SHABAD, L.M.; RUKAVISHNIKOVA, T.I.; ZAK, L.M.; VLASENKO, O.M.

Comparative study of air contamination by a cancerogenic substance (3.4-benzopyrene) in Erkutsk and Angarsk [with summary in English]. Oig. 1 san. 23 no.4:7-10 Ap. 158. (MIRA 11:6)

1. Iz knfedry obshchey gigiyeny Irkutskogo meditsinskogo instituta, laboratorii eksperimental noy onkologii Instituta onkologii AMN SSSR, Irkutskoy oblastnoy sanitarno-epidemiologicheskoy stantsii i Irkutskogo energeticheskogo upravleniya.

(AIR POLLUTION, determ.

by 3.4 bensopyrone in sampling of snow flakes (Rus)) (BENZOFTRENES, determ.

3.4 bensopyrene in sampling of enow flakes in air pollution determ. (Rus.)

GORTALUM, G.N., DIKUN, P.P.

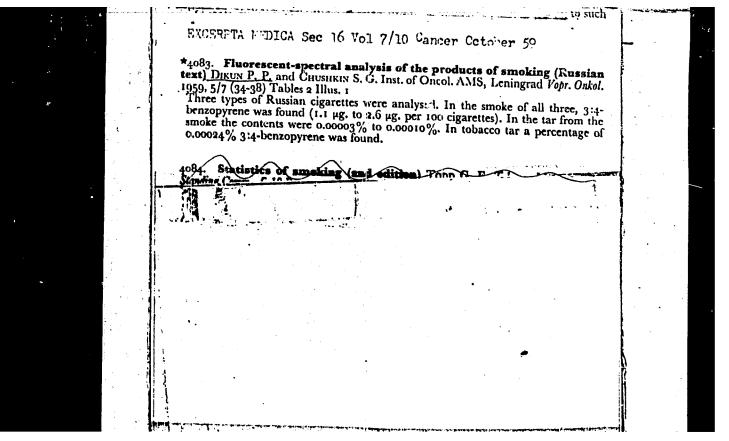
Determination of 3.4-benzopyrene in certain shale products and in sewage from the shale industry [with summary in English]. Gig. i sea. 23 no.8:24-27 Ag '58
(RENZOPYRENE, determination (MERA 11:9)

in shale prod. & in sewage from shale plants (Rus)) (SEWAGE.

benzpyrenes in shale indust. (Rus))

SHABAD, Leon Manusovich; DIKUN, Pavel Polikarpovich; CHAKLIN, A.V., red.; KHARASH, G.A., tekhn.red.

[Pollution of the atmosphere by the carcinogenic substance 3,4-benzpyrene] Zagriasmenie atmosfernogo vozdukha kantserogennym veshchestvom - 3,4-benzpirenom. Leningrad, Gos.izd-vo med.lit-ry. Leningr.otd-nie, 1959. 239 p. (MIRA 13:3) (Benzopyrene) (Air--Pollution)



GORELOVA, N.D.; DIKUN P.P.

Detection of 3,4-henzopyrene in human lung tissue. Vop.onk. 5 no.8:161-164 '59. (MIRA 12:12)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chlen-korrespondent AMN SSSR prof. L.M. Shabad) Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtora: Leningrad, P-129, 2-ya Berezovaya alleya, d. 5/3, Institut onkologii AMN SSSR.

(BENZOPTEENES chem.)
(LUNG chem.)

GORELOVA, N.D.; DIKUN, P.P.; LAPSHIN, I.I.

Determination of the presence (possibility of occurrence) of 3,4-benzopyrene in liquid smoke and in smoked products. Vop.onk. 5 no.9:341-346 59. (MFM 12:12)

1. Iz laboratorii eksperimental'noy onkologii (zav. - chlen-korrespondeut AMN SSSR prof. L.M. Shabad) Instituta onkologii AMN SSSR (dir. deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov) i Instituta narodnogo
khozyaystva im. Plekhanova (dir. - A.I. Fefilov). Adres avtorov: Leningrad, P-129, 2-ya Berezovaya ai., 3, Institut onkologii AMN SSSR (for
Gorelova i Dikun; Moskva, Stremyannoy per., 28, Moskovskiy institut
narodnogo khozyaystva (for Iapshin).

(BENZOPYRENES chem.)

(BENZOPYRENES chem.)
(FOOD ADDITIVES chem.)

(DIKUN, P.P.

Utilization of the fine structure of the fluorescence spectrum of 3,4-benzpyrene to increase the degree of authenticity of its findings. Vop. onk. 5 no.12:672-677 '59. (MIRA 13:12) (BENZPYRENES)